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his own shoulders that the burden was lifted. All present also feel that they are greatly indebted to the ladies of the Botanical Society, who, through their kind and thoughtful attention, did so much to make visiting members feel thoroughly at home. The Botanical Department of the University has also placed the Society under great obligations for the courteous loan of the lantern and operator, as well as for the use of rooms in the Botanical Hall.

EDWARD B. CHAMBERLAIN, *Secretary.*

NEW YORK CITY.

HEPATICAE COLLECTED IN FLORIDA BY SEVERIN RAPP

[MISS CAROLINE C. HAYNES]

The following list comprises sixty-four species of Hepaticae collected by Mr. Severin Rapp during the years 1903–14. Determinations were made by Dr. A. W. Evans and Herr Stephani. The richness of the Southern field is admirably demonstrated by the fact that all the specimens yielding these species came from one locality, Sanford, Orange Co., or its vicinity. Mr. Rapp is a good collector, his is the keen eye to detect the most minute of species; and while there are many rarities and several recently described species, the collection contains additional material as yet undescribed.

The numbers correspond with those of a set deposited in the Herbarium of the New York Botanical Garden. The list was arranged by Caroline Coventry Haynes, who thinks it not out of place to add a plea that botanists while in Florida collect hepatics, even though out for bigger game.

Ricciaceae

Riccia Donnellii Aust. (*No. 9*). On sand in ditches.

Ricciella crystallina (L.) Warnst. (*No. 6*). On sidewalks between bricks.

Ricciella fluitans (L.) A. Br. (*No. 4*). In water and ditches.

Ricciocarpus natans (L.) Corda (*No. 8*). Side of ditch.

Marchantiaceae

Marchantia polymorpha L. (*No. 7*). On ground and on bricks. New to Florida.

Metzgeriaceae

Thallocarpus Curtisii (Aust.) Lindb. (*No. 12*). On rich soil in ditches.

Sphaerocarpos Donnellii Aust. (*No. 17*). On sand in fields. For description and figures *see* C. C. Haynes, Bull. Torr. Bot. Club. **37:** 226. *Pl. 29, 30.* 1910.

Sphaerocarpos texanus Aust. (*No. 21*). On walks mixed with *Ricciella crystallina.* For description and figures *see* C. C. Haynes, *loc. cit. 222. Pl.* 26, 27. 1910.

Riccardia multifida (L.) S. F. Gray (*No. 26*). On logs in wet places.

Riccardia palmata (Hedw.) Carruth. (*No. 27*). On rotten logs. *See* Evans, Bryologist **16:** 50. 1913.

Riccardia pinguis (L.) S. F. Gray (*No. 28*). On rotten logs in swamp.

Metzgeria myriopoda Lindb. (*No. 29*). On magnolia in high hammock and on exposed roots. *See* Evans: Vegetative reproduction in Metzgeria, Ann. Bot. **24:** 279. *f. 6.* Apr. 1910.

Metzgeria uncigera Evans (*No. 73*). On tree trunk. For description of this species *see* Evans: *loc. cit.* 273–277. *f. 1–3.* Also note Bryologist **17:** 87. 1914.

Pallavicinia Lyellii (Hook.) S. F. Gray (*No. 10*). On sandy banks and rotten stumps.

Fossombronia salina Lindb. (*No. 2*). On sandy banks. For note *see* Evans, Bryologist **17:** 87–88. 1914.

Jungermanniaceae

Plagiochila floridana Evans. (*No. 30*). On exposed roots.

Plagiochila ludoviciana Sulliv. (*No. 31*). Tree trunks and exposed roots.

Plagiochila undata Sulliv. (*No. 14*). On exposed roots.

Clasmatocolea Doellingeri (Nees) Steph. (*No. 33*). On palmetto roots and logs.

Lophocolea heterophylla (Schrad.) Dumort. (*No. 13*). On bark and on sandy banks.

Lophocolea Martiana Nees. (*No. 1*). On rotten logs in hammock.

Cephalozia connivens (Dicks.) Lindb. (*No. 32*). On swampy ground.

Cephalozia media Lindb. (*No. 34*). On sandy banks.

Cephalozia serriflora Lindb. (*No. 35*). On rotten logs in hammock.

Odontoschisma prostratum (Swartz) Trevis. (*No. 36*). Growing over roots and on sandy banks.

Calypogeia Sullivantii Aust. (*No. 53*). On ditch bank. New to Florida.

Calypogeia Trichomanis (L.) Corda. (*No. 54*). On sandy banks.

Lepidozia sylvatica Evans. (*No. 25*). On sandy banks.

Telaranea nematodes longifolia M. A. Howe (*No. 22*). On sandy banks.

Radula australis Aust. (*No. 24*). On trunks of tree in hammock.

Porella pinnata L. (*No. 3*). On tree trunk near base and on exposed roots. New to Florida.

Diplasiolejeunea Rudolphiana Steph. (*No. 68*). On rotten trunks in swamp. For description *see* Evans, Bull. Torrey Bot. Club **39:** 220–222. *Pl. 17, f. 13–17.* 1912.

Cololejeunea Biddlecomiae (Aust.) Evans (*No. 76*). On tree trunks.

Cololejeunea minutissima (Smith) Schiffn. (*No. 15*). On trunk of orange.

Cololejeunea setiloba Evans. (*Nos. 27 and 59*). On tree trunks. For description *see* Bryologist **16:** 51–54. *f. 1–7.* 1913.

Leptocolea Jooriana (Aust.) Evans (*No. 5*). On shrubs.

Lejeunea flava (Swartz) Nees. (*No. 18*). On tree, near base and on roots.

Lejeunea floridana Evans. (*No. 11*). On logs in hammock. For description *see* Bull. Torrey Bot. Club **32:** 185–188. *Pl. 5. f. 15–21.* 1905.

Lejeunea glaucescens Gottsche. (*No. 55*). On logs. Note by A. W. Evans, *see loc. cit.*, 188.

Lejeunea spiniloba Lindenb. and Gottsche. On cypress. For notes *see* A. W. Evans, Bryologist **15**: 61–62. 1913; **17**: 89–90. 1914.

Microlejeunea bullata (Tayl.) Evans. (*No. 19*). On roots and on tree trunks.

Microlejeunea laetevirens (Nees and Mont.) Evans (*No. 15*). On bark of various trees.

Cheilolejeunea polyantha Evans. (*No. 61*). On trees.

Rectolejeunea Brittoniae Evans (*No. 63*). On bark and on exposed roots. For description and notes *see* Bull. Torrey Bot. Club **38**: 209–212. *Pl. 9, f. 1–12.* 1911; Bryologist **16**: 54. 1913.

Euosmolejeunea clausa (Nees & Mont.) Evans (*No. 20*). On bark.

Euosmolejeunea duriuscula (Nees) Evans (*No. 23*). On bark.

Taxilejeunea obtusangula (Spruce) Evans (*No. 70*). On logs and on trunks of trees near base. For description and notes *see* Evans, loc. cit. 215–218. *Pl. 10;* Bryologist **17**: 90. 1914.

Ceratolejeunea integrifolia Evans. (*No. 37*). On trunks of trees and exposed roots. For description and notes *see* loc. cit. 213–215. *Pl. 9, f. 13–19;* Bryologist **14**: 88. 1911.

Crossotolejeunea bermudiana Evans. (*No. 67*). On young tree in swamp. For description and notes *see* Bull. Torrey Bot. Club **32**: 132–134. *Pl. 6.* 1906; Bryologist **17**: 90. 1914.

Brachiolejeunea corticalis (Lehm. & Lindenb.) Schiffn. (*No. 38*). On trunk of live oak.

Lopholejeunea Muelleriana (Gottsche) Schiffn. (*No. 40*). On bark. *See* Evans, Bryologist **11**: 45. 1908.

Mastigolejeunea auriculata (Wils & Hook.) Schiffn. (*No. 19*). On trunks in hammock.

Leucolejeunea conchifolia Evans (*No. 39*). On living trees.

Leucolejeunea unciloba (Lindenb.) Evans. (*No. 41*). On trees.

Leucolejeunea xanthocarpa (Lehm. & Lindenb.) Evans. (*No. 49*). On bark of tree in hammock. For description and notes *see* Evans, Torreya **7**: 229. 1908; Bull. Torrey Bot. Club **35**: 172. *Pl. 7, f. 12–23.* 1908; Bryologist **17**: 90. 1914.

Frullania Brittoniae Evans. (*No. 77*). On *Magnolia glauca*. New to Florida.

Frullania cobrensis Gottsche (*No. 57*). On maple. For note *see* Evans, Bryologist **16**: 35. 1913.

Frullania Donnellii Aust. (*No. 75*). On various barks.

Frullania Kunzei Lehm. & Lindenb. (*No. 42*). On shrubs, trunks, and branches.

Frullania obcordata Lehm. & Lindenb. (*No. 43*). On tree trunks and branches.

Frullania Rappii Evans. (*Nos. 44 & 18*). On tree trunks and branches. For description and notes *see* Bryologist **15**: 22–26. *f. 1-9.* 1912.

Frullania squarrosa (R., Bl. & N.) Dumort. (*No. 45*). On tree trunks.

Anthocerotaceae

Anthoceros carolinianus Michx. (*No. 46*). On earth and logs.

Anthoceros punctatus L. (*No. 47*). On sandy bank, earth, and logs.

HIGHLANDS, N. J.

ADDITIONS TO THE LICHEN-FLORA OF SOUTHERN CALIFORNIA.—NO. 10

H. E. HASSE

With the exceptions of those species published by Dr. A. Zahlbruckner in Annales Mycologici the writer is responsible for the descriptions of the following new species:

Dermatocarpon heppioides A. Zahlbr. n. sp., *l. c.* X, 359. 1912. On rocks, Santa Monica Mts.

Arthopyrenia (*Acrocordia*) *sphaeroides* (Wallr.) A. Zahlbr. Thallus effuse, smoothish, light gray with a faint yellowish dash. Apothecia dimidiate, dull black, hemispherical, at base thinly coated with thallus. Spores 8, colorless, bilocular, ellipsoid, 14μ to 16μ long, 6μ to 8μ thick. Spermatia acicular, straight or lightly curved at distal end, 16μ long. Hym. gel. with I yellow. On oak, Catalina Island.

Mycoporellum californicum A. Zahlbr. n. sp., *l. c.* X, 363. 1912. On Quercus agrifolia, Santa Monica Mts.

Opegrapha hassei A. Zahlbr. n. sp., *l. c.* X. 365. 1912. Rocks, Catalina Island.

Lecidea (*Biatora*) *meiocarpa* Nyl. Lich. Fr. Behr. p. 57; in Flora p. 577. 1876. Northern and oriental Asia (Japan), in N. Amer. (Port Clarence), Europe. Not heretofore reported from the United States, it is believed.

Lecanora lacustris (With.) Nyl. (*L. cinerea lacustris* Nyl. Lich. Scand. 55. 1861.) Tuck. Syn. Li. N. Amer. I. 199. On schistose rocks, Santa Monica Mts.; Eastern N. A., but perhaps not before reported from the west coast. Authors mention as habitat "rocks often inundated," which, however, does not hold good with our lichen whose "inundations" occur with us only during the brief rainy season.

Rinodina dirinoides A. Zahlbr. n. sp. in litt. Thallus crustaceous, dull whitish, of thick convex cushion-like squamules with lobulate border, mealy, corticate above, attached to substratum by medullary hyphae, the cushions 1.5 to 4 mm. wide. Apothecia mostly several on each cushion, appressed-sessile, 1 to 1.8 mm. in width; disk flat-convex, dark but thickly pruinose and thus appearing but little darker than the thallus; thallus with K. yellow, soon orange brown or dark safffron, C –. Epithecium granulose, light yellowish brown; thecium colorless, 100μ to 112μ high; paraphyses strict, coherent, hypothecium pale straw color; asci inflated clavate, reaching up to the epithecium, 8-spored; spores bilocular, blunt ellipsoid, 15μ to 24μ long, 8μ to 12μ thick, light umber brown, the loculi at first almost without color, in mature spores red-brown. Hym. gel